

"Dedicated to Public Service"

THE RADIATOR



W6RHC
IRL #8170
Echolink #322788



<http://www.gearsw6rhc.org>

P.O.Box 508 Chico, CA 95927-0508

Founded: August 13, 1939

November, 2016

Coming Events

O.A.R.S. GENERAL MEETING

Second Friday, of month, 7:00 p.m., at St. Paul's Church Parrish Hall, 1430 Pine St., Oroville

G.A.R.S. Second Thursday of month, 4:30 p.m. Lutheran Church Hall, Artois; 4:30 p.m.

G.E.A.R.S. General Meeting, third Friday of month, Butte County Search and Rescue Bldg., Chico. Social hour 6:30, meeting at 7:00.

Board Meetings: 2nd Saturday of month

Butte A.R.E.S. MEET: fourth Friday, at Butte County Search and Rescue Building.

FCC EXAMS - GEARS VEC

First Sunday of every even numbered month.
At the Butte County Search and Rescue Building.
Written test at 2:00 p.m. For information or pre-registration call Tom Rider -W6JS; 530-893-9211

Club Events: News and items of interest
GEARS Calendar...all inside.

Website: www.gearsw6rhc.org
www.gearsw6rhc.org



Picture courtesy EVARC

The Prez' Says:

QST de KA6GND



This past month we held our Workshop. Those in attendance had a good time and felt that it was a success. The current thought is that we will hold another one in the spring. If there is an area of our hobby that you would like to see demonstrated/taught, or would like to help plan and organize this event, please let me know.

At this month's General Meeting on Friday, November 18th our guest speaker will be Dan Newman, a ham and Captain of Butte County Sherriff's Search & Rescue. It should be an interesting and informative presentation about what they do in helping to save lives, and we may see ways that we can participate with their communications team.

At last months meeting we were treated to a wonderful presentation by Mike Kaliczak, N6NIX all about 60 meters. In this issue of the Radiator is the plans of an effective 60 meter antenna that Mike discussed that does not take a lot of space to put up.

I hope to work you soon on one of the bands!

73,



Larry Marcum,
KA6GND

Ka6gnd@gmail.com

345-5399

Board of Directors Meeting October 15 2016

ATTENDANCE All present.

MEMBERSHIP APPLICATIONS: No new.

OLD BUSINESS:

Minute of Oct 15 board meeting approved.

Treasures report: PG&E bill \$16.48, reimbursement to Gene Wright for Steak Bake \$158.35, current balance \$3153.13. Report approved.

Committees:

Net Manager: Larry has assumed net manager.

VEC: 5 tested 3 passed. Two tech one general.

Membership: None.

Repeater: Will be sending in for an update. The cost will be \$50.

Programs: Mike N6NIX will give a talk on 60 meters.

Search & Rescue new policy \$25 per use, no parking in the lot and need proof of insurance.

Buddipole drawing in December: Tickets have been made up and are \$5 apices or \$20 for 5. You can contact Larry KA6GND. 32 tickets sold.

One-day workshop: Will do it again!

Larry has come up with a coffee mug with the club logo and your call sign and name from a local source to sell for \$15. 12 ordered 8 paid.

Nominating committee: Michael not present.



Club Christmas Party: Discussed how we will plan this years party.

ADJOURNMENT: 9:58 am
Dale Anderson,
Secretary

MINUTES OF GENERAL MEETING for Oct 21 2016**Introductions:**

PROGRAM: Mike N6NIX will give a talk on 60 meters. Steven gave a short talk on insulators.

ATTENDANCE: All present.

ANNOUNCEMENT:

Search & Rescue new policy \$25 per use, no parking in the lot and need proof of insurance. The cost to us will be \$450 per year. That includes meetings and VEC.

Next board meeting is on November 12 at 9am at Blood-Source.

The next club meeting will be on Nov 18.

The next club breakfast will be on Oct 29 at the Farmers Skillet 9am.

Big ticket item drawing? Dick W6BIN has donated a Buddy Pole for the first big ticket item. \$5 for one and \$20 for 5.

A gears club coffee mug with your name and call sign on it is being offered for \$15.

Next program will be Capt. Dan Newman on search and rescue.

Club officer nominating committee is looking for people to run for office.

VEC: 5 tested 3 passed. Two tech one general.

MINUTES: Approved minutes for September.

TREASURER. PG&E bill \$16.48, reimbursement to Gene Wright for Steak Bake \$158.35, current balance \$3153.13. Report approved.

ADJOURNMENT: 20:48 hr.

Dale Anderson,
Secretary

ELECTION OF OFFICERS FOR 2017**NOMINATING COMMITTEE RECOMMENDATIONS ARE:**

President: Larry Marcum
Vice-President: Stephen Wolske
Treasurer: Rick Hubbard
Secretary: Michael Favor
Director: Gene Wright
Director: Tom Rider
Director: Dale Anderson

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Members of the Nominating/Elections Committee :

Chairperson: Gene Wright-WA6ZRT

Michael Favor –N6FAV

Tom Rider— W6JS

Thank you Gene, Michael and Tom.

also

A thank you to each of the above listed nominees.

As a refresher to members, Article 6, Election of Officers from the GEARS constitution is published in the next column.

GEARS Constitution:**Article VI-Election of Officers:**

Section 1: All elected officers of GEARS shall be currently licensed amateurs and shall have been a member of GEARS for one (1) year. Members who are under eighteen (18) years of age are not eligible to be elected officers.

Section 2. The President shall select an Election Chairperson from the Board of Directors, who shall then select two (2) members from the general membership. This shall be the Nominating/Election Committee. At the October general meeting the committee shall make inquiry of the membership as to their recommendations for elected officers for the following year. Before the November general meeting and also before the December general meeting the GEARS membership shall be notified by mail of the candidates selected by the Nominating/Election committee.

Section 3. At the December general meeting, the Nominating/Election Committee shall have charge of the election, and shall take any nominations from the floor. No member may be nominated from the floor without his/her consent of prior written consent. If there are two (2) or ore nominees for an office, election shall be by secret ballot. Nominees receiving a majority of votes by the members present are elected to office. In the case of the Board of Directors nominees, the three receiving the largest number of votes are elected to office.

NIX Shortened 60 Meter Antenna

Submitted by Mike Kaliczak-N6NIX

The result of following the instructions below will be that you have an antenna that is resonant at 5.3 MHz and is approximately 30 feet long total.

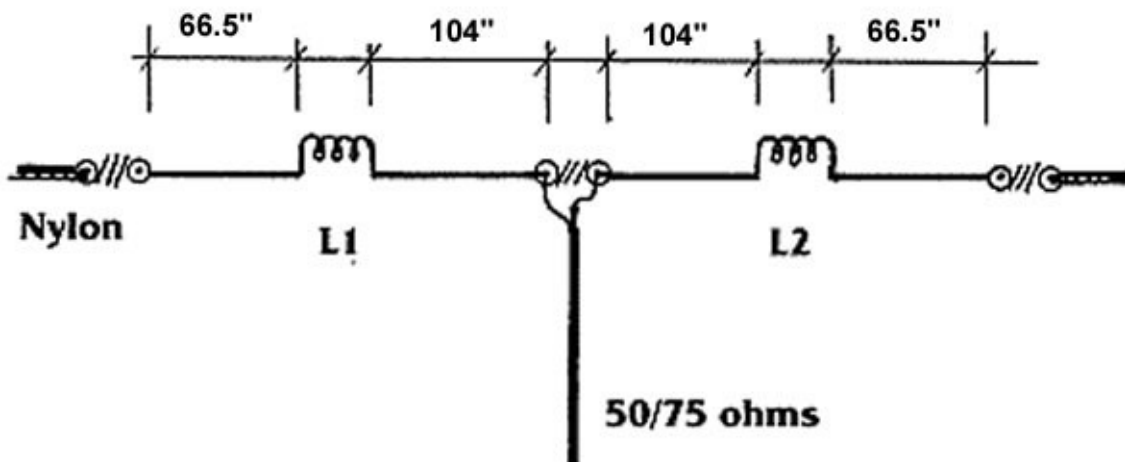
This antenna is a short dipole made up of inductors (L1 /L2) in half of each arm, based on the concept of inductive load.

The dimensions are shown in the figure. The L1/L2 can be built on 2" OD PVC; the feed line to the radio can be either 50 or 75 ohms coax.

Construction

Antenna: A total of 96 feet of 14 GA stranded & insulated copper wire, divided into four sections, plus that used for the coils. Insulators are 2" OD PVC. Cut and install all wire sections per the diagram except for the end of the 66.5" section that connects to the insulators at either end of the antenna where you will want to allow an additional 10"-12" of wire to allow for final tuning once mounted.

L1/L2: Two tubes of 2" OD PVC and 8 ½" long. Roll 63 turns of 14 GA stranded & insulated copper wire on each tube, closely wound. A length of 10 meters (32' 10") of wire should be sufficient for each inductor. Solder all crimped connections.



The diagram above show the disposition of the antenna with its respective inductors L1/L2.

CONSTRUCTION NOTES: Crimp and solder all terminals. Use only stainless steel hardware. Posts at ends of PVC are ¾" 10 x 24 machine screws with lock nuts. Distance between posts is 7-1/8".

INSTALLATION NOTE: 104" length is fixed. Tune the 66.5" side. Use with a 1:1 transformer type balun, if available. Tune for best SWR on channel 2.

Mike Kaliczak – N6NIX
mkaliczak@buttescr.org



GEARS COFFEE MUGS

Order your personalized mug now!

\$15 each

(a portion goes to GEARS)



back pf mug

To order contact
Larry - KA6GND
530-345-5399
ka6gnd@gmail.com

Hey KA6GND—I want one too!



DO YOU HAVE OLD QST MAGAZINES IN SEARCH OF A NEW HOME?

Gene Wright has that future home for your QSTs, through his project to place QST Magazines in professional offices throughout Chico.

Labels placed on the QST's will advertise the Golden Empire Amateur Radio Society, encourage the readers to consider Ham Radio as an interesting hobby, one of not only fun, but which provides opportunities for many and various community services .

Bring your QST's to Gene at the Club meetings or contact:

Gene -WA6ZRT-530- 345-3515.

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VEC TESTING
2:00 p.m.
December 4, 2016
February 5, 2017

**AT BUTTE COUNTY
SEARCH & RESCUE
BUILDING**

**All Classes
Technician, General and
Extra.**

**Contact:
Tom Rider-W6JS**



530-893-9211
Rustyboy rider@aol.com



Caps embroi-
dered with your
name and your
call sign may be
ordered by con-
tacting WA6ZRT
-Gene Telephone
#530 -345-3515
Now, also, coffee
Mugs!

TUBE OF THE MONTH**FZO64A**

The FZ-064A is a 60 watt beam pentode made by the Matsuda Company for the Japanese military in WWII. It was based on the RCA 807 or 1625 with a 6 pin base and lacking an anode cap.

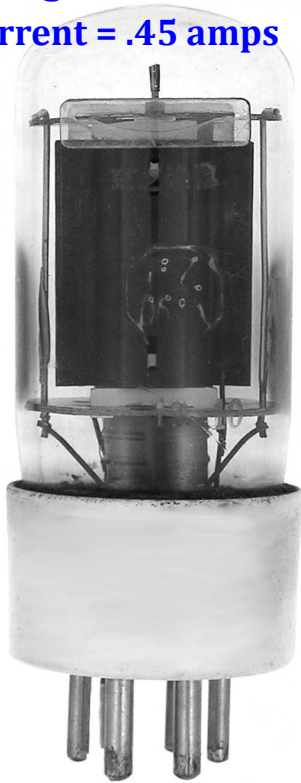
Length = 4.13" Diameter = 1.62"

Max voltage = 600

Max current = 100 ma

Fil voltage = 12.6

Fil current = .45 amps



How To Make Sound from Your Radio Seem To Be Behind You.

(Okay, so this is not absolutely Ham Radio, but heck! It is interesting!)

##

Many People assume that the outer ear is shaped as it is purely to collect sound and channel it into the ear canal. Zits shape certainly helps with this task, but the ar is also designed to subtly change the quality of sound so we can distinguish where it is coming from.

When a sound comes from behind you, it enters the ear canal from a particular angle, causing it to pass over a specific part of the outer ear. We are not conscious of the way this changes the sound, but our auditory cortex can detect it. When combined with information about the amount of sound received by each ear, this enables us to tell where it originates from.

To create a sound that constantly seems to be coming from behind you, a technique known as dummy head recording is used. A microphone is placed inside the ear canal of a mannequin head with a realistically shaped outer ear. This alters any sound before it reaches the microphone, meaning that the position of the sound relative to the head is maintained in the recording. Then it is played back, you perceive the sound to be behind you, regardless of where your radio is positioned.

(From:New Scientist Weekly, September 10 -16 issue The Last Word, question and answer section, page 57)

The GEARS Newsletter Staff:**Editor and Publisher.....**Dorothy Post**Printing & Distribution snail mail:** Evelyn Weir**Website...Stephen McDermott W6AKF**

The Radiator is a monthly publication of the Golden Empire Amateur Radio Society (GEARS). It is the policy of the Editor to publish all material submitted by the membership provided such material is in good taste, relevant to amateur radio, of interest to GEARS members, and space is available. Please send all submissions to the Editor – Dorothy Post by the last day of the month through the following medium: E-mail: dj@posthouse.us

Club Officers: (Board of Directors)

PresidentLarry Marcum-ka6gnd

Vice President..... Stephen Wolske-kf6hss

Secretary Dale Anderson-kk6evx

Treasurer.....Rick Hubbard-ki6vos

Past PresidentAnna Horn Kg6goa

Director..... Tom Rider-W6JS

Director.....Gene Wright-wa6zrt

Director.....Raymond Foulks-kg6mrk

Club Meetings**General Meeting Third Friday 7:00 PM****Board Meeting Second Saturday****GEARS Club Net****Tuesdays 7:30 PM 146.850 MHz-PL 110.9**

**GARS Club Net:Monday,7:00 pm 147.105+Mhz
PL 110.09**

Thursdays Simplex Net 7:30 p.m. 146.52**Sacramento Valley Traffic Net****Nightly 9:00 PM 146.850 MHz-PL 110.9****ARES Nets:****Butte Mondays 20:00 146.850 MHz-PL 110.9****Yuba Sutter Thursdays 19:00 146.085+MHz PL 127.3****Glenn Thursday 19:30 147.105 MHz +PL 100.0****Other Nets:**

**Sac Valley Section Net—7:00 PM 2nd Wed of the month
146.085 MHz+PL 127.3**

440 Wed. Night 8:00 PM Wednesday 440.650 MHz**Golden Bear 7:00 PM Daily 3975 kHz****Willie Net 8:00 PM Mondays 1930 kHz**

**Western Public Service System (WPSS)
7:30 PM 3952 kHz**

**ARISS (International Space Station) Uplink 144.490
MHz Downlink 145.800 MHz**

Hope-1 satellite: all uplinks are in 145Mhz band:**All downlinks are in 435Mhz band****...California Traffic Net: 3906 KHz nightly @6:00 pm****For traffic listing & @6:30 p.m. for roll call.**

Date	Time	Event	Location	Contact party
Sunday, December 4 February 5, 2017	2:00 p.m.	VEC—Exams	Butte Co. Search & Rescue Building 2591 Morrow Lane, Chico	Tom Rider 530-893-9211
Thursday November 10, 2016	6:30 p.m. Board and General Meeting .	GARS-Glenn Glenn Amateur Radio Society \\	Lutheran Church Hall: Artois	Albert Leyva 530-567-5979
Friday, November 11, 2016		OARS Oroville Amateur Radio Society General Meeting	St Paul's Church Parrish Hall 1430 Pine Street Oroville	Ron Osborne-kd7uhf 530 589 1834 kd7uhf@yahoo.com
Saturday November 19, 2016	Board meet: 9:00 a.m.	GEARS Board of Directors Meet Members are Invited!	Blood Source Blood Source Bldg 555 Rio Lindo Ave	Larry Marcum, KA6GND 530 345 5399 ka6gnd@gmail.com
Friday November 25, 2016	General Meeting Social 6:30 p.m. Program: At 7:00 General meeting 8:00 p.m.	GEARS Golden Empire Amateur Radio Society	Butte County Search and Rescue Building 2591 Morrow Lane Chico	Larry Marcum, KA6GND 530 345 5399 ka6gnd@gmail.com

**Bring Your Old Eyeglass Wear to GEARS for the
LIONS Club Eyeglasses donation Box**
Prescription glasses, or magnifying eyeglasses, sunglasses, but no loose lens—frames are a necessity.
This is a club community effort in which all members may participate with minimal effort.

!Donations to GEARS are TAX DEDUCTIBLE!

We are a 501 c 3 organization, and as such, donations cash, or materials, donated to GEARS are Tax deductible. When you donate to GEARS, be sure you receive a letter of acknowledgment from our Secretary as proof of the donation and its value for the State and Federal Tax Authorities. This is a win-win for GEARS and for you, the member or the party donating!